Form	PTO-	1449	(modified)
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List of Patents and Publications for Applicant's

Atty. Docket No. NBD-48

Serial No. 09/981,603

INFORMATION DISCLOSURE STATEMENT

Applicant Dvorak et al.

Page 1 of 7

Filing Date: 10/17/2001

Group: 2184

<del>ق حدادی</del> خ	U.S. Patent Documents						
Marks mit.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A01	H536	10/04/88	Strickland et al.	324	456	
	A02	H538	11/01/88	Betzold	89	134	
	A03	30,678	07/14/81	Van Zeeland et al.	361	44	_
	A04	2,808,566	10/01/57	T. Douma	324	127	<b>%</b>
	A05	2,832,642	04/29/58	Lennox	299	Ten 1	CA CANA
	A06	2,898,420	08/04/59	Kuze	200	87.70/	80 V/
	A07	3,471,784	10/07/69	Arndt et al.	324	126	3
	A08	3,538,241	11/03/70	Rein	174	143	1/62
	A09	3,588,611	06/28/71	Lambden et al.	317	31	3/00
	A10	3,600,502	08/17/71	Wagenaar et al.	174	143	
	A11	3,622,872	11/23/71	Boaz et al.	324	52	
	A12	3,660,721	5/72	Baird	361	55	<u> </u>
	A13	3,684,955	08/15/72	Adams	324	72	EB E
	A14	3,716,757	2/73	Rodriguez	317	40	FEB 1 2 2002
	A15	3,746,930	07/17/73	Van Best et al.	317	31	1 2 20
	A16	3,775,675	11/27/73	Freeze et al.	324	51	2002 anter 2
	A17	3,812,337	05/21/74	Crosley	235	153 AC	8
	A18	3,858,130	12/31/74	Misencik	335	18	
-	A19	3,869,665	03/04/75	Kenmochi et al.	324	72	
	A20	3,878,460	04/15/75	Nimmersjo	324	52	
	A21	3,911,323	10/07/75	Wilson et al.	317	18	
	A22	3,914,667	10/21/75	Waldron	317	36	
	A23	3,932,790	01/13/76	Muchnick	317	18D	
	A24	3,939,410	02/17/76	Bitsch et al.	324	72	
	A25	4,052,751	10/04/77	Shepard	361	50	
	A26	4,074,193	02/14/78	Kohler	324	126	
	A27	4,081,852	03/28/78	Coley et al.	361	45	
	A28	4,087,744	05/02/78	Olsen	324	51	1000
	A29	4,156,846	05/29/79	Harrold et al.	324	158	

**EXAMINER:** 

**DATE CONSIDERED:** 

Form PTO-1449 (modified)	Atty. Docket No. NBD-48	Serial No. 09/981,603
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT	Applicant Dvorak et al.	
Page 2 of 7	Filing Date: 10/17/2001	Group: 2184

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A30	4,166,260	8/79	Gillette	335	20	
PE	A31	4,169,260	09/25/79	Bayer	340	562	
	A32	4,214,210	07/22/80	O'Shea	455	282	
2002 G	A33	4,233,640	11/11/80	Klein et al.	361	44	
ARKOTICE	A34	4,245,187	01/13/81	Wagner et al.	324	54	
AKS	A35	4,251,846	02/17/81	Pearson et al.	361	30	
	A36	4,264,856	05/28/81	Frierdich et al.	322	25	
	A37	4,316,187	02/16/82	Spencer	340	664	<u>용</u> 고
	A38	4,344,100	8/82	Davidson et al	361	45	FEB 0
	A39	4,354,154	10/12/82	Olsen	324	51	9 6
	A40	4,356,443	10/26/82	Emery	324	51	8 2002 Center 2
	A41	4,378,525	3/83	Burdick	324	127	TE S
	A42	4,387,336	06/07/83	Joy et al.	324	51	8 2002 Center 2100
	A43	4,459,576	07/10/84	Fox et al.	336	84	
	A44	4,466,071	08/14/84	Russell, Jr.	364	492	
-	A45	4,477,855	10/84	Nakayama et al	361	54	
	A46	4,587,588	5/86	Goldstein	361	54	
	A47	4,616,200	10/07/86	Fixemer et al.	335	35	<b>a</b>
	A48	4,639,817	01/27/87	Cooper et al.	361	62	黄 元 品
	A49	4,642,733	02/10/87	Schacht			FEB 1
	A50	4,644,439	02/17/87	Taarning	361	87	
	A51	4,652,867	03/24/87	Oscar Masot	340	638	002 ter 2600
	A52	4,658,322	04/14/87	Rivera	361	37	600
	A53	4,697,218	09/29/87	Nicolas	633	882	
	A54	4,702,002	10/27/87	Morris et al.	29	837	
	A55	4,707,759	11/17/87	Bodkin	831	642	
	A56	4,771,355	09/13/88	Emery et al.	361	33	
	A57	4,810,954	03/07/89	Fam	324	142	
	A58	4,816,958	3/89	Belbel et al	361	93	

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Form PTO-1449 (modified)	Atty. Docket No. NBD-48	Serial No.	
	NDD-46	09/981,603	
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT	Applicant Dvorak et al.		
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
PE	A59	4,833,564	05/23/89	Pardue et al.	361	93	-
) 2002 G	A60	4,835,648	05/30/89	Yamauchi	361	14	
المنع	A61	4,839,600	6/89	Kuurstra	324	127	
MARKORIS	A62	4,845,580	07/04/89	Kitchens	361	91	
	A63	4,847,719	7/89	Cook et al	361	13	
	A64	4,853,818	08/01/89	Emery et al.	361	33	<b>E D</b>
	A65	4,858,054	08/15/89	Franklin	361	57	E T
	A66	4,866,560	09/12/89	Allina	361	104	
	A67	4,882,682	11/21/89	Takasuka et al.	364	507	ଜ ∞ <b>୮</b>
	A68	4,893,102	01/09/90	Bauer	335	132	
	A69	4,901,183	02/13/90	Lee	361	56	210
	A70	4,922,368	05/01/90	Johns	361	62	0
	A71	4,931,894	06/05/90	Legatti	361	45	
	A72	4,939,495	07/03/90	Peterson et al.	337	79	
	A73	4,949,214	08/14/90	Spencer	361	95	
	A74	4,969,063	11/06/90	Scott et al.	361	93	
	A75	5,010,438	04/23/91	Brady	361	56	EB HC
	A76	5,047,724	09/10/91	Boksiner et al.	324	520	B L
	A77	5,051,731	09/24/91	Guim et al.	340	638	RECEIVED FEB 1 2 2002
	A78	5,121,282	06/09/92	White	361	42	2002 1002
	A79	5,166,861	11/24/92	Krom	361	379	2600
	A80	5,168,261	12/01/92	Weeks			
	A81	5,179,491	01/12/93	Runyan	361	45	
	A82	5,185,684	02/09/93 _	Beihoff et al.	361	45	
	A83	5,185,685	02/09/93	Tennies et al.	361	45	
	A84	5,185,686	02/09/93	Hansen et al.	361	45	
	A85	5,185,687	02/09/93	Beihoff et al.	361	45	
	A86	5,206,596	04/27/93	Beihoff et al.	324	536	
	A87	5,208,542	05/04/93	Tennies et al.	324	544	

EXAMINER:	DATE CONSIDERED:	

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Ken ?	A88	5,223,795	06/29/93	Blades	324	536	
2002 E	A89	5,224,006	06/29/93	MacKenzie et al.	361	45	
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NO.	A91	5,280,404	01/18/94	Ragsdale	361	113	
	A92	5,286,933	02/15/94	Pham			
	A93	5,307,230	04/26/94	MacKenzie	361	96	<b>a</b>
	A94	5,334,939	08/02/94	Yarbrough			
,,,,,,,	A95	5,353,014	10/04/94	Carroll et al.	340	638	olo EB
	A96	5,359,293	10/25/94	Boksiner et al.	324	544	
	A97	5,363,269	11/08/94	McDonald			8 2002 Center 2
	A98	5,373,241	12/94	Ham, Jr. et al	324	536	er 2
	A99	5,383,084	01/17/95	Gershen et al.	361	113	8
-	A100	5,388,021	02/07/95	Stahl	361	56	
	A101	5,396,179	03/07/95	Domenichini et al.	324	546	
	A102	5,412,526	05/02/95	Kapp et al.	361	56	
	A103	5,414,590	05/09/95	Tajali	361	669	
	A104	5,420,740	05/30/95 /	MacKenzie et al.	361	45	HE HE
	A105	5,424,894	06/13/95	Briscall et al.	361	45	S C C
	A106	5,434,509	07/18/95	Blades	324	536	FEB 1 2 2002 fechnology Center 260
	A107	5,444,424	08/22/95	Wong et al.	335	172	2002 enter 2
	A108	5,446,431	08/29/95	Leach et al.	335	18	)2 1, 26
	A109	5,448,443	09/05/95	Muelleman	361	111	8
	A110	5,452,223	09/19/95	Zuercher et al.	364	483	
	A111	5,459,630	10/17/95	MacKënzie et al.	361	45	
	A112	5,473,494	12/95	Kurosawa et al	361	3	
	A113	5,477,150	12/19/95	Ham, Jr. et al.	324	536	
	A114	5,481,235	01/02/96	Heise et al.	335	18	
	A115	5,483,211	01/09/96	Carrodus et al.	335	18	
	A116	5,485,093	01/16/96	Russell et al.	324	522	

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Form PTO-1449 (modified)	Atty. Docket No.	Serial No.	
,	NBD-48	09/981,603	
List of Patents and Publications for Applicant's	Applicant		
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.			
	A117	5,493,278	02/20/96	MacKenzie et al.	340	638				
E.	A118	5,506,789	04/09/96	Russell et al.	364	492				
0 2002 G	A119	5,510,946	04/23/96	Franklin						
35	A120	5,512,832	04/30/96	Russell et al.	324	522				
MINDY THE BY	A121	5,519,561	05/21/96	Mrenna et al.	361	105				
	A122	5,531,617	07/02/96	Marks	439	723.				
	A123	5,546,266	08/13/96	Mackenzie et al.	361	93	4			
	A124	5,561,605	10/01/96	Zuercher et al.	364	483				
	A125	5,568,371	10/22/96	Pitel et al.	363	39	RECEIVEL FEB 0 \$ 2002			
	A126	5,578,931	11/26/96	Russell et al.	324	536	OM			
	A127	5,590,010	12/96	Ceola et al	361	93	8 Z			
	A128	5,590,012	12/31/96	Charles Dollar	361	113	VEI 2002 2002			
	A129	5,602,709	02/11/97	Al-Dabbagh	361	85	8			
	A130	5,608,328	03/04/97	Sanderson	324	529				
	A131	5,617,019	4/97	Etter	324	117				
·	A132	5,638,244	6/97	Mekanik et al	361	62				
	A133	5,657,244	08/12/97	Seitz	364	492				
	A134	5,659,453	08/19/97	Russell et al.	361	93	HEC PEC			
	A135	5,682,101	10/28/97	Brooks et al.	324	93 536 <b>93</b> 536 <b>93</b> 536	B J			
	A136	5,691,869	11/25/97	Engel et al.		3.6	1 2 200			
	A137	5,701,110	12/23/97	Scheel et al.	335	132	EC 2007			
	A138	5,706,154	01/06/98	Seymour	361	42				
	A139	5,726,577	03/10/98	Engel et al-	324	536				
-	A140	5,729,145	03/17/98	Blades	324	536				
	A141	5,764,125	6/98	May	336	92				
	A142	5,805,397	09/08/98	MacKenzie	361	42				
	A143	5,805,398	09/08/98	Rae	361	42				
	A144	5,815,352	09/29/98	Mackenzie	361	42				
	A145	5,818,237	10/06/98 (	Zuercher et al?	324	536				

<b>EXAMINER:</b>
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Form PTO-1449 (modified)	Atty. Docket No. NBD-48	Serial No. 09/981,603	
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT	Applicant Dvorak et al.		
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				10/17/2001			
			U.S. Pa	atent Docume	nts		
Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A146	5,818,671	10/06/98	Seymour et al.	361	42	
PA	A147	5,825,598	10/98	Dickens et al	361	42	
6.	A148	5,834,940	11/98	Brooks et al	324	424	
3 0 2002	<b>2</b> A149	5,835,319	11/10/98	Welles, II et al.	361	5	
4	A150	5,835,321	11/10/98	Elms et al.	361	45	
DEMARK	A151	5,839,092	11/98	Erger et al	702	58	<u>e</u> 7
	A152	5,847,913	12/98	Turner et al	361	93	Technology
	A153	5,886,861	3/99	Parry	361	42	207
	A154	5,889,643	3/99	Elms	361	42	8 2 Cen
	A155	5,896,262	4/99	Rae et al.	361	94	8 2002 Center 2100
	A156	5,905,619	5/18/99	Jha	361	93	l jë
	A157	5,933,308	8/99	Garzon	361	62	
	A158	5,946,179	8/99	Fleege et al	361	93	-
	A159	6,246,556 B1	06/12/2001	Haun et al.	361	42	
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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B01	EP 0094 871A1	05/09/83	European			
	B02	EP 0615327A2	09/14/94	Europe	H02H	1/00	
	B03	EP 0649207A1	04/19/95	Europe			
	B04	EP 0748021A1	12/11/96	European			
	B05	EP 0762591A2	03/12/97	Europe			
	B06	EP 0802602A2	10/22/97	Europe			
	B07	EP 0813281A2	<del> </del>	Europe			,
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Form PTO-1449 (modified)	Atty. Docket No. NBD-48	Serial No. 09/981,603	
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		Page 7 of 7		10/17/2001	_		
		F	Foreign I	Patent Docume	nts		
Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B08	GB 2177561A	06/30/85	U.K			
	B09	GB 2285886A	07/26/95	U.K			4 —
	B10	0158365 ЛР		Japan		*	
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			<del>.</del>				
	Other	Art (Includi	ng Autho	or, Title, Date P	ertinen	t Pages	s, Etc.)
Exam. Init.	Ref. Des.			Citation			
	C01	Antonio N. Paol. pp. 40-49.	antonio, P.E.	, Directional Couplers, R	k.F. Design,	September	r/October, 1979,
	C02			onal Coupler Design Gra RF Design, February, 19			led Lines and
	C03		its, Raytheon	Fault Interrupter, Prelim Company Semiconducto 8.			
	C04		ling Únits, C	ility of Main Service Gro onsultants Electro-Protect, 1990, pp. 1-77.			
	C05			rcing Faults On Distribut Station, Texas 77843, Fir			
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EXAMINER:	DATE CONSIDERED:
	HETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH ERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)				Atty. Docket Mo NBD-48	Atty. Docket Mo. O P Serial No. NBD-48 Serial No. 09/981,603			
		l Publications for N DISCLOSURE		Dvorak et alm	JUL 0 2 2002	N P	2184	
		Page 1 of 1	_	Filing Date: 10/17/2001	RADEMAEK OF	Group:	2184	
			U.S. Pa	atent Docume	nts			
Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Dat if App.	
BH	D01	6,259,996	07/10/2001	Haun et al.	702	58		
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			Foreign	Patent Docum	nents	160	TINIOlogy Center	
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EXAMINER:	Acres	Doninuon	DATE CONSIDERED:	12.08.02
EXAMINER: INIT	TAL IF REFERENCE	CE CONSIDERED, WHETHER O	R NOT CITATION IS IN CONFORMANCE WIT	H MPEP609; DRAW LINE THROUGH
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List of Caterrs and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT	Applicant Dvorak et al.	
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Te m	U.S. Patent Documents								
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1	A01	H536	10/04/88	Strickland et al.	324	456			
<del>  </del>	A02	H538	11/01/88	Betzold	89	134			
	A03	30,678	07/14/81	Van Zeeland et al.	361	44			
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	A05	2,832,642	04/29/58	Lennox	299	132			
	A06	2,898,420	08/04/59	Kuze	200	87			
	A07	3,471,784	10/07/69	Arndt et al.	324	126			
	A08	3,538,241	11/03/70	Rein	174	143			
	A09	3,588,611	06/28/71	Lambden et al.	317	31			
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(1	A11	3,622,872	11/23/71	Boaz et al.	324	52			
A	A12	3,660,721	5/72	Baird	361	55			
	A13	3,684,955	08/15/72	Adams	324	72			
	A14	3,716,757	2/73	Rodriguez	317	40			
	A15	3,746,930	07/17/73	Van Best et al.	317	31			
	A16	3,775,675	11/27/73	Freeze et al.	324	51			
	A17	3,812,337	05/21/74	Crosley	235	153 AC			
	A18	3,858,130	12/31/74	Misencik	335	18			
	A19	3,869,665	03/04/75	Kenmochi et al.	324	72	<u> </u>		
	A20	3,878,460	04/15/75	Nimmersjo	324	52			
	A21	3,911,323	10/07/75	Wilson et al.	317	18			
	A22	3,914,667	10/21/75	Waldron	317	36			
	A23	3,932,790	01/13/76	Muchnick	317	18D			
	A24	3,939,410	02/17/76	Bitsch et al.	324	72			
	A25	4,052,751	10/04/77	Shepard	361	50			
	A26	4,074,193	02/14/78	Kohler	324	126			
	A27	4,081,852	03/28/78	Coley et al.	361	45			
1	A28	4,087,744	05/02/78	Olsen	324	51			
	A29	4,156,846	05/29/79	Harrold et al.	324	158			

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EXAMINER:	SOLI	Dorenson	DATE CONSIDERED:	19.10.03
EXAMINER: INITIA	AL IF REFERENCE	CONSIDERED, WHETHER OR	NOT CITATION IS IN CONFORMANCE WIT	H MPEP609; DRAW LINE THROUGH

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
A	A30	4,166,260	8/79	Gillette	335	20 _	
<del></del>	A31	4,169,260	09/25/79	Bayer	340	562	
	A32	4,214,210	07/22/80	O'Shea	455	282	
	A33	4,233,640	11/11/80	Klein et al.	361	44	
	A34	4,245,187	01/13/81	Wagner et al.	324	54	
_	A35	4,251,846	02/17/81	Pearson et al.	361	30	
_	A36	4,264,856	05/28/81	Frierdich et al.	322	25	
+-	A37	4,316,187	02/16/82	Spencer	340	664	<del> </del>
<del>-   -</del>	A38	4,344,100	8/82	Davidson et al	361	45	
	A39	4,354,154	10/12/82	Olsen	324	51	
_	A40	4,356,443	10/26/82	Emery	324	51	
<del>-  -</del> -	A41	4,378,525	3/83	Burdick	324	127	
	A42	4,387,336	06/07/83	Joy et al.	324	51	
	A43	4,459,576	07/10/84	Fox et al.	336	84	
4/2	A44	4,466,071	08/14/84	Russell, Jr.	364	492	
- <del>  X</del>	A45	4,477,855	10/84	Nakayama et al	361	54	
	A46	4,587,588	5/86	Goldstein	361	54	
	A47	4,616,200	10/07/86	Fixemer et al.	335	35	
	A48	4,639,817	01/27/87	Cooper et al.	361	62	
	A49	4,642,733	02/10/87	Schacht			
	A50	4,644,439	02/17/87	Taarning	361	87	
$\vdash$	A51	4,652,867	03/24/87	Oscar Masot	340	638	
	A52	4,658,322	04/14/87	Rivera	361	37	
	A53	4,697,218	09/29/87	Nicolas	633	882	
	A54	4,702,092	10/27/87	Morris et al.	29	337	
<del>                                     </del>	A55	4,707,759	11/17/87	Bodkin	831	642	
	A56	4,771,355	09/13/88	Emery et al.	361	33	
<b> </b>	A57	4,810,954	03/07/89	Fam	324	142	
1	A58	4,816,958	3/89	Belbel et al	361	93	

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Form PTO-1449 (modified)	Atty. Docket No. NBD-48	Serial No. 09/981,603
List of Partin and Publications for Applicant's INFORMATION AISCLOSURE STATEMENT	Applicant Dvorak et al.	
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
1	A59	4,833,564	05/23/89	Pardue et al.	361	93	
-14	A60	4,835,648	05/30/89	Yamauchi	361	14	
	A61	4,839,600	6/89	Kuurstra	324	127	
	A62	4,845,580	07/04/89	Kitchens	361	91	
	A63	4,847,719	7/89	Cook et al	361	13	
	A64	4,853,818	08/01/89	Emery et al.	361	33	
	A65	4,858,054	08/15/89	Franklin	361	57	
	A66	4,866,560	09/12/89	Allina	361	104	
	A67	4,882,682	11/21/89	Takasuka et al.	364	507	
	A68	4,893,102	01/09/90	Bauer	335	132	
	A69	4,901,183	02/13/90	Lee	361	56	
7	A70	4,922,368	05/01/90	Johns	361	62	
V	A71	4,931,894	06/05/90	Legatti	361	45	
	A72	4,939,495	07/03/90	Peterson et al.	337	79	
	A73	4,949,214	08/14/90	Spencer	361	95	
	A74	4,969,063	11/06/90	Scott et al.	361	93	
	A75	5,010,438	04/23/91	Brady	361	56	
	A76	5,047,724	09/10/91	Boksiner et al.	324	520	
	A77	5,051,731	09/24/91	Guim et al.	340	638	
	A78	5,121,282	06/09/92	White	361	42	
	A79	5,166,861	11/24/92	Krom	361	379	
	A80	5,168,261	12/01/92	Weeks			
	A81	5,179,491	01/12/93	Runyan	361	45	
	A82	5,185,684	02/09/93	Beihoff et al.	361	45	
	A83	5,185,685	02/09/93	Tennies et al.	361	45	
	A84	5,185,686	02/09/93	Hansen et al.	361	45	
	A85	5,185,687	02/09/93	Beihoff et al.	361	45	
	A86	5,206,596	04/27/93	Beihoff et al.	324	536	
	A87	5,208,542	05/04/93	Tennies et al.	324	544	

Examiner:	Haus	Kerenson	DATE CONSIDERED:	10.03
EXAMINER: INITIAL CITATION IF NOT IN CO	IF REFERENCE CONSI	DERED WHETHER OR NOT C	ITATION IS IN CONFORMANCE WIT OPY OF THIS FORM WITH NEXT CO	H MPEP609; DRAW LINE THROUGH MMUNICATION TO APPLICANT.

Form PTO-1449 (modified)	Atty. Docket No. NBD-48	Serial No. 09/981,603
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THE STATE OF THE S	MADEMAC	N. C.	U.S. Patent Documents				
Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
1	A88	5,223,795	06/29/93	Blades	324	536	
	A89	5,224,006	06/29/93	MacKenzie et al.	361	45	
	A90	5,257,157	10/26/93	Epstein	361	111	
	A91	5,280,404	01/18/94	Ragsdale	361	113	
	A92	5,286,933	02/15/94	Pham			
	A93	5,307,230	04/26/94	MacKenzie	361	96	
	A94	5,334,939	08/02/94	Yarbrough			
<u>d</u>	A95	5,353,014	10/04/94	Carroll et al.	340	638	
1/x	A96	5,359,293	10/25/94	Boksiner et al.	324	544	
	A97	5,363,269	11/08/94	McDonald			
	A98	5,373,241	12/94	Ham, Jr. et al	324	536	
-	A99	5,383,084	01/17/95	Gershen et al.	361	113	
	A100	5,388,021	02/07/95	Stahl	361	56	
	A101	5,396,179	03/07/95	Domenichini et al.	324	546	
-	A102	5,412,526	05/02/95	Kapp et al.	361	56	
	A103	5,414,590	05/09/95	Tajali	361	669	
_	A104	5,420,740	05/30/95	MacKenzie et al.	361	45	
	A105	5,424,894	06/13/95	Briscall et al.	361	45	
+-	A106	5,434,509	07/18/95	Blades	324	536	
	A107	5,444,424	08/22/95	Wong et al.	335	172	
	A108	5,446,431	08/29/95	Leach et al.	335	18	
	A109	5,448,443	09/05/95	Muelleman	361	111	
	A110	5,452,223	09/19/95	Zuercher et al.	364	483	
	A111	5,459,630	10/17/95	MacKenzie et al.	361	45	
	A112	5,473,494	12/95	Kurosawa et al	361	3	
	A113	5,477,150	12/19/95	Ham, Jr. et al.	324	536	
	A114	5,481,235	01/02/96	Heise et al.	335	18	
	A115	5,483,211	01/09/96	Carrodus et al.	335	18	
	A116	5,485,093	01/16/96	Russell et al.	324	522	

EXAMINER:	Boni	herenson		DATE CONSIDERED:	11.10.03
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
V	A117	5,493,278	02/20/96	MacKenzie et al.	340	638	
4	A118	5,506,789	04/09/96	Russell et al.	364	492	
	A119	5,510,946	04/23/96	Franklin			
_	A120	5,512,832	04/30/96	Russell et al.	324	522	
1	A121	5,519,561	05/21/96	Mrenna et al.	361	105	
_	A122	5,531,617	07/02/96	Marks	439	723	
_	A123	5,546,266	08/13/96	Mackenzie et al.	361	93	
	A124	5,561,605	10/01/96	Zuercher et al.	364	483	
+-	A125	5,568,371	10/22/96	Pitel et al.	363	39	<u> </u>
+	A126	5,578,931	11/26/96	Russell et al.	324	536	
_	A127	5,590,010	12/96	Ceola et al	361	93	
+-	A128	5,590,012	12/31/96	Charles Dollar	361	113	
2	A129	5,602,709	02/11/97	Al-Dabbagh	361	85	
<u>/</u>	A130	5,608,328	03/04/97	Sanderson	324	529	
<del>`</del>	A131	5,617,019	4/97	Etter	324	117	
	A132	5,638,244	6/97	Mekanik et al	361	62	
+	A133	5,657,244	08/12/97	Seitz	364	492	
	A134	5,659,453	08/19/97	Russell et al.	361	93	
	A135	5,682,101	10/28/97	Brooks et al.	324	536	
_	A136	5,691,869	11/25/97	Engel et al.			
	A137	5,701,110	12/23/97	Scheel et al.	335	132	
	A138	5,706,154	01/06/98	Seymour	361	42	
_	A139	5,726,577	03/10/98	Engel et al.	324	536	
_	A140	5,729,145	03/17/98	Blades	324	536	
-+	A141	5,764,125	6/98	May	336	92	
-+	A142	5,805,397	09/08/98	MacKenzie	361	42	
	A143	5,805,398	09/08/98	Rae	361	42	
	A144	5,815,352	09/29/98	Mackenzie	361	42	
-	A145	5,818,237	10/06/98	Zuercher et al.	324	536	

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Form PTO-1449 (modified)	Atty. Docket No. NBD-48	Serial No. 09/981,603	
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A146	5,818,671	10/06/98	Seymour et al.	361	42	
	A147	5,825,598	10/98	Dickens et al	361	42	
	A148	5,834,940	11/98	Brooks et al	324	424	
	A149	5,835,319	11/10/98	Welles, II et al.	361	5	
	A150	5,835,321	11/10/98	Elms et al.	361	45	
1/	A151	5,839,092	11/98	Erger et al	702	58	
1/2	A152	5,847,913	12/98	Turner et al	361	93	
	A153	5,886,861	3/99	Parry	361	42	
	A154	5,889,643	3/99	Elms	361	42	
	A155	5,896,262	4/99	Rae et al.	361	94	
	A156	5,905,619	5/18/99	Jha	361	93	
	A157	5,933,308	8/99	Garzon	361	62	
	A158	5,946,179	8/99	Fleege et al	361	93	
V	A159	6,246,556 B1	06/12/2001	Haun et al.	361	42	
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	_1		Foreign	Patent Docum	nents		
Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
N	B01	EP 0094 871A	1 05/09/83	European			
	B02	EP 0615327A2	2 09/14/94	Europe	H02H	1/00	
Z	B03	EP 0649207A	1 04/19/95	Europe			
14	B04	EP 0748021A	1 12/11/96	European			
	B05	EP 0762591A	2 03/12/97	Europe			
	B06	EP 0802602A	2 10/22/97	Europe			
	B07	EP 0813281A		Europe			L
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Form PTO-1449 (modified)	Atty. Docket No. Serial No. 09/981,603		
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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No	
$\Lambda$	B08	GB 2177561A	06/30/85	U.K				
1/4	B09	GB 2285886A	07/26/95	U.K.				
4	B10	0158365 ЈР		Japan	ļ			
-	B11	WO 97/30501	08/21/97	International (PCT)		-		
					-			
	Other	Art (includi	ng Autho	or, Title, Date P	ertinen	t Page	s, Etc.)	
Exam. Init.	Ref. Des.		Citation					
BB	C01	Antonio N. Paol pp. 40-49.	Antonio N. Paolantonio, P.E., Directional Couplers, R.F. Design, September/October, 1979, pp. 40-49.					
BB	C02	Alejandro Duenas, J., Directional Coupler Design Graphs For Parallel Coupled Lines and Interdigitated 3 dB Couplers, RF Design, February, 1986, pp. 62-64.						
60	C03	Integrated Circu	RV4145 Low Power Ground Fault Interrupter, Preliminary Product Specifications of Integrated Circuits, Raytheon Company Semiconductor Division, 350 Ellis Street, Mountain View CA 94309-7016, pp. 1-8.					
63	C04	Jean-Francois Joubert, Feasibility of Main Service Ground-Fault Protection On The Electrical Service To Dwelling Units, Consultants Electro-Protection Ins., 1980, Michelin St., Laval, Quebec H7L 9Z7. October 26, 1990, pp. 1-77.						
kA	C05	B.D. Russell, Detection Of Arcing Faults On Distribution Feeders, Texas A & M Research Foundation, Box H. College Station, Texas 77843, Final Report December, 1982, pp. 1-B18.						
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Form PTO-1449 (modified)				Atty. Docket No NBD-48	Atty. Docket No. NBD-48		erial No. 09/981,603		
List of Pa	RMATIO	Sublications for DiscLOSURE	Applicant's STATEMENT	Applicant Dvorak et al.					
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Exam. Ref. Document Init. Des. Number		Date	Name	Class	Sub Class	Filing Date if App.			
RB	D01	6,259,996	07/10/2001	Haun et al.	702	58			
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				Patent Docun		Sub	Translation		
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